



ATOM3000



STR022

User Manual

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1. Safety Information

Warning: This product is for professional use only! It is not for household use.

The BF-3000D presents potential risks of lethal or severe injury due to fire and heat, electric shock, ultraviolet radiation, and falls. Flashing light is also known to trigger epileptic seizures in persons who are photosensitive. Read this manual before powering or installing the fixture, follow the safety precautions listed below and observe all warnings in this manual and printed on the fixture.

To guard against electric shock

- Disconnect the fixture from AC power and allow the flash capacitor to discharge for 1 minute before changing the lamp or resettable trip, and when not in use.
- Do not remove the rear cover: there are no user-serviceable parts inside.
- Always ground (earth) the fixture electrically.
- Use only a source of AC power that complies with local building and electrical codes and has both overload and ground-fault protection. Ensure the AC supply is of sufficient capacity to supply the high current required to operate this fixture.
- Do not expose the fixture to rain or moisture.

Replace the lamp only as described or have it replaced by corresponding service technician.

To guard against UV radiation, burns, and fire

- Never operate the fixture with the front glass open, missing or damaged.
- Do not stare directly into the light. Never look at an exposed lamp while it is lit.
- Replace the lamp when it becomes defective or worn out.
- When replacing the lamp, allow the fixture to cool for at least 10 minutes before opening the fixture or removing the lamp.
- Never attempt to bypass the fuse. Always replace defective fuses with ones of the specified type and rating.
- Verify that the power feed cable is rated for the current draw of all connected fixtures.
- Keep all combustible materials (for example fabric, wood, paper) at least 0.5 meters (20 inches) away from the fixture. Keep flammable materials well away from the fixture.

- Minimum distance to illuminated surface is 10 meters.
- Provide a minimum clearance of 0.1 meters (4 inches) around air vents.
- Never place filters or other materials over the front glass cover.
- The exterior of the fixture can reach temperatures up to 120° C (248° F). Allow the fixture to cool for at least 15 minutes before handling.
- Do not modify the fixture or install other than genuine parts.
- Do not operate the fixture if the ambient air temperature (Ta) exceeds 40° C (104° F).

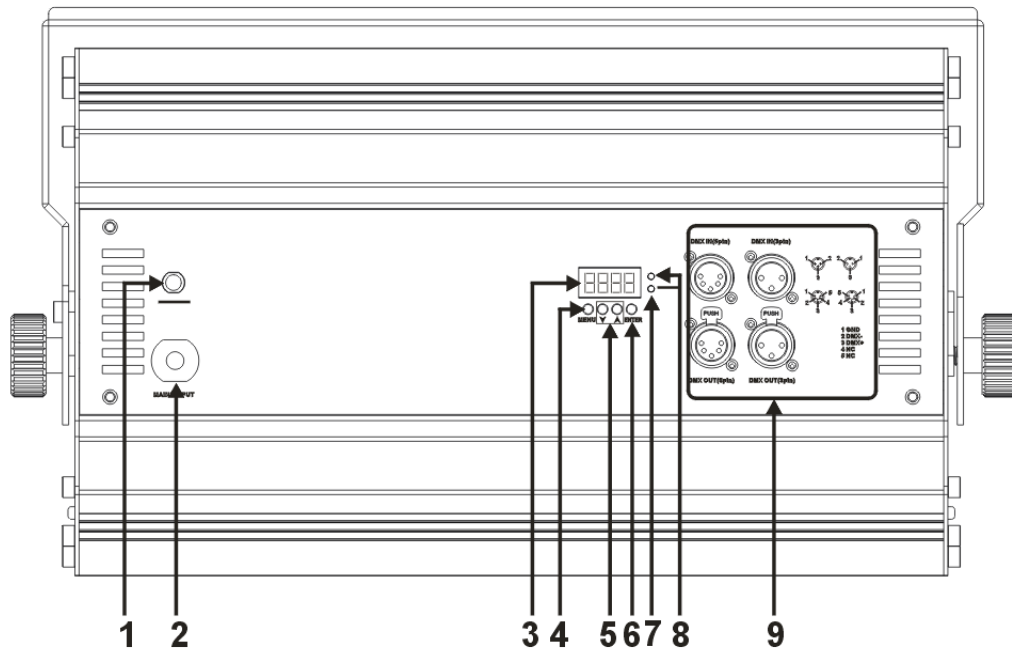
To guard against falls

- When suspending the fixture above ground level, verify that the structure can hold at least 10 times the weight of all installed devices.
- Verify that all external covers and rigging hardware are securely fastened and use an approved means of secondary attachment such as a safety cable.
- Block access below the work area whenever installing or removing the fixture.

To guard against epileptic seizure

- Do not operate the fixture near stairways.
- Provide advance notice that strobe lighting is in use.
- Avoid extended periods of continuous flashing, particularly at frequencies of 10 to 20 flashes per second.

2. Rear Panel



- 1, Trip 30A resettable fuse
- 2, Power cable
- 3, LED display
- 4, Menu button
- 5, UP/DOWN button
- 6, Enter button
- 7, Flash indicator
- 8, DMX signal indicator
- 9, DMX input/output

3. Preparation for Use

UNPACKING

The BF- 3000D comes with the following items:

- PX-3000xenon lamp (installed, LAMP110)
- Mounting bracket
- User manual
- The packing material protects the fixture during shipment; always use it to transport the fixture. Transportation between venue's (ie. hire) should be done with the fixture housed in a suitable flight case.

AC POWER CONNECTION

- BF-3000D should be connected with AC power 230V, 50/ 60Hz.
- Resettable 30A fuse onboard.
- Use 14 AWG or 2.5 mm² minimum power feed cables and keep runs as short as possible.

To install a plug on the mains lead

The mains lead must be fitted with a heavy duty AC connector with ground connection. Consult a qualified electrician if you have any doubts about proper installation. The connector must be of suitable type to handle the current draw of this fixture.

Wire	Pin	Marking
brown	live	“L”
blue	neutral	“N”
yellow/green	ground	

Table1: Cord cap wirings

INSTALLATION

The BF- 3000D may be installed in any orientation. The mounting bracket provides five 12 mm holes for direct fastening or attachment of rigging clamps.

To install the mounting bracket

1. Place the fixture face down on a table.
2. Place an aluminum washer on each mounting bracket stud.
3. Make clear the direction of left and right side of bracket and lock the screws. After that, tighten one hand knob to lock the mounting bracket in one end of bracket.

4. Replacing the Lamp

This section describes the lamp options, the lamp power setting, and how to replace the lamp.

The lamp is electronically regulated to prevent overheating. Lamp regulation can be

seen, for example, by the gradually decreasing intensity of the blinder effect.

APPROVED LAMP

Warning: Only PX-3000 xenon lamp is approved in the BF-3000D. Installing a lamp that is not approved may create a safety hazard or damage the fixture!

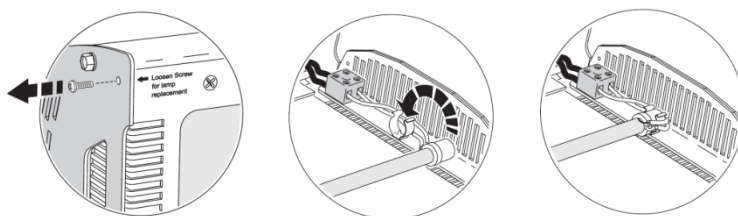
LAMP REPLACEMENT

ON/ OFF state of the lamp can be shown with Flash LED on the rear panel.

To replace the lamp

Warning: Verify that the fixture is disconnected from AC power before opening the front cover! Also, pay more attention to the location and installation of wiring before replacement.

1. Disconnect the fixture from AC power and allow the capacitor to discharge for 1 minute.
2. When the fixture is cool, remove the two marked screws on the sides of the fixture and open the front glass cover.
3. Disconnect the lamp wires at the screw terminals. Lift the old lamp out of the holder.
4. Replace the old lamp with a new one.
5. Lift and turn the lamp over so that the leads loop around the ends as shown, then press the lamp into the clips.
6. Close the front cover and tighten the side screws before applying power.



FUSE REPLACEMENT

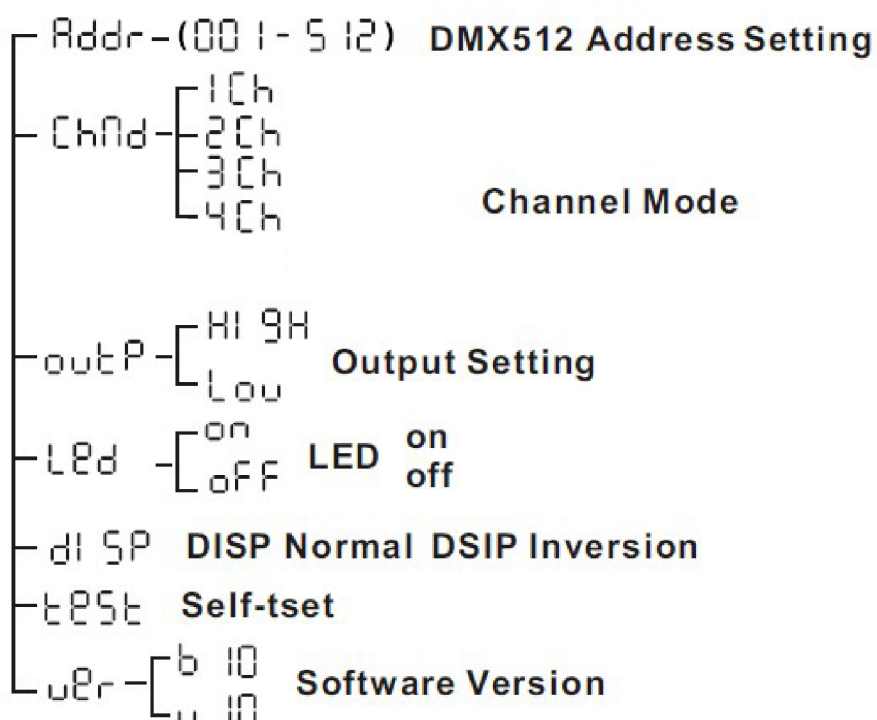
The BF- 3000D uses a 30 amp trip for protection against current overload. If the trip blows repeatedly, there is a fault with the unit that requires service by a technician.

5. CONTROLLER OPERATION

This section describes how to operate the BF- 3000D with a DMX controller.

5.1 Main function

Press MENU button enter the function, then use UP/DOWN or MENU button to select the function you want, final press ENTER button to confirm the function you select. Wait for 5 seconds, it will return to main interface. If you want back to main menu, please hold MENU button for 1 second. The main menu as follow:



5.2 Addr DMX 512 address setting

Select ADDR option, press ENTER button to confirm your selection. You can check the current DMX address from LED display. The DMX address can be changed by press UP/DOWN button and then press ENTER button to confirm your selection. Wait for 5 seconds, it will return to main interface. If you want back to main menu, please hold MENU button for 1 second.

5.3 ChNd Channel mode setting

Select "ChNd" option, press ENTER button to confirm your selection. Change the channel way (1/2/3/4) by press UP/DOWN button. Press ENTER button

to confirm your selection. Press ENTER button to confirm your selection.
Wait for 5 seconds, it will return to the main interface. If you want back to main menu, please press MENU button.

1-CH MODE	2-CH MODE	
	CH1 Flash duration Flash rate	CH2 Flash intensity
255 Continuous  250 "Blinder"  Dims after period of time Flash rate,  slow to fast 5  0 Blackuot	255  BLINDER FUNCTION 247  FLASH RATE FROM SLOW TO FAST 37  1 FLASH TRIGGER 5  0 Blackuot	255 100%  Minimum to maximum 5  0 Blackuot 0%

3-CH MODE		
CH1 Flash intensity	CH2 Burst Rate	CH3 Flash rate
255 100%  Minimum to maximum 5  0 Blackuot 0%	255    0 	255    5  No flash (single flash with ch. 1) 0 

4-CH MODE			
CH1 Flash intensity	CH2 Burst Rate	CH3 Flash rate	CH4 Build-in effect
255 100%  Minimum to maximum 5  0 Blackuot 0%	255    0 	255    5  No flash (single flash with ch. 1) 0 	255  Spikes 214  Random 171  Lightning 128  Ramp up-down 85  Ramp down 42  Ramp up 5  No effect 0

5.4 Output channel setting

Select OUTP option, press ENTER button to confirm your selection. Select the output way (high / low) by press UP/DOWN button. Press ENTER button to confirm your selection. Wait for 5 seconds, it will return to main interface. If you want back to main menu, please hold MENU button for 1 second.

5.5 LED display setting

Select the LED option, press ENTER button to confirm your selection. You can see the current ON/OFF status of LED display now. You can change its status by press UP/DOWN button. Then press ENTER button to confirm your selection. Wait for 5 seconds, it will return to main interface. If you want back to main menu, please hold MENU button for 1 second.

5.6 LED display direction setting

Select DISP option, press ENTER button to confirm your selection. Select the DISP / DSIP by press UP/DOWN button. Press ENTER button to confirm your selection. Wait for 5 seconds, it will return to main interface. If you want back to main menu, please hold MENU button for 1 second.

5.7 Test setting

Select TEST option, press ENTER button to confirm your selection. The flash indicator will light up and the unit will test automatically. Wait for 15 seconds self-test, it will return to main interface. If you want back to main menu, please hold MENU button for 1 second.

5.8 Check the version number

Select the VER, press ENTER button to confirm. You can see the current version number now (b 10/v 10) and check them by UP/DOWN. Wait for 5 seconds, it will return to main interface. If you want back to main menu, please hold MENU button for 1 second.

DMX CONTROL SUMMARY

Intensity

Flash intensity can be set from minimum (blackout) to maximum on channel 1 in the 3- and 4-channel DMX modes. Flash intensity can be set from minimum (blackout) to maximum on channel 2 in the 2-channel DMX modes.

The maximum intensity can be reduced by selecting low power mode as described

Duration

Flash duration can be set from 0 to 650 ms on 50 Hz power supplies, or 0 to 530 ms on 60 Hz power supplies, on channel 2 in the 3- and 4-channel DMX modes. Flash duration is fixed in 1-and 2-channel DMX mode.

Rate

Flash rate can be set from 0 flashes per second to 17.5 flashes per second Hz on 50 Hz power supplies, or from 0 to 20 flashes per second on 60 Hz power supplies, on channel 3 in the 3- and 4-channel DMX modes. Flash rate is also controllable in 1- and 2-channel DMX mode.

Built-in effects

Six programmed effects are available on channel 4 in the 4-channel DMX mode only. The effects may be altered using the intensity, duration, and rate controls.

- Ramp up: Light gradually increases in intensity, then blacks out.
- Ramp down: Light flashes to full intensity, then gradually fades.
- Ramp up-down: Light gradually increases and decreases.
- Random flash: Light flashes randomly with variable rate and intensity. Multiple units flash independently of each other.
- Lightning: The flashes simulate lightning. Duration is not adjustable.

Blinder effect

The blinder effect, in which the light remains on for an extended period, is available in all DMX modes. In the 3- and 4-channel modes, the effect is achieved by the combination of flash duration and rate prevents pauses

between flashes. For example, the blinder effect can be achieved with a flash duration of 0.25 seconds (250 ms) and a flash rate of 4 flashes per second, or a flash duration of 0.05 seconds (50 ms) and a flash rate of 20 flashes per second.

In 3- and 4-channel DMX mode, the intensity of the blinder effect is controllable on channel 1. Lamp power is electronically regulated to prevent the lamp from overheating. The intensity falls as power is reduced.

Single Flash

To trigger single flashes, start with the intensity and flash rate at 0 and then set the intensity on channel 1. When the value of channel 1 is changed, the light will flash once with the programmed intensity, duration, and effect.

DATA CONNECTION

Important: Do not terminate the data link when using the BF-04D!

The remote controller connects to The BF- 3000D with a 3-pin XLR data cable. Additional BF- 3000D may be connected in series, output to input. Note, however, that the data link must not be terminated as described DMX controllers and the BF-3000D should change to the remote control function.

OPERATION

Intensity

- Flash intensity is controlled from 20% of the maximum Intensity to 100% of the maximum Intensity with the DIMMER fader.
- The maximum intensity is reduced in low power mode, which is selected on pin 6 of the menu.

Chase Speed

- Chase speed is controlled from slow to fast with the SPEED fader.
- The BLACK OUT button toggles chase run on and off. The indicator diode is on when chase stopped and off when chase running.

Chase Number

Toggle Chase number with Chase button and will be shown on the nixie tube.

Chase Mode

Toggle Chase running way with MODE button: AUTO/SOUND mode. The corresponding LED indicator will display the selected mode.

Blind Effect

The blinder effect is controlled with the FULL ON button. The intensity is the maximum Intensity. Lamp power is electronically regulated to prevent the lamp from overheating.

Single Flash

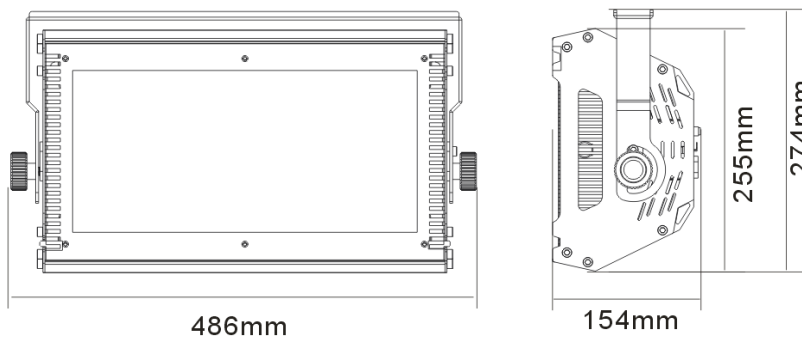
Single flashes can be achieved by pressing the SINGLE FLASH button. Switch on the “BLACK OUT” and indicator lamp light up, to press the SINGLE FLASH button for triggering a single flash effect.

6. Technical Specifications

Approved AC power	200 - 240 V nominal, 50/60 Hz
Peak current consumption	30 A
Typical current consumption	8 A
AC mains power cable	14 AWG or 2.5 mm ²
Xenon strobe lamp	PX-3000 (LAMP110)
Dimension	486×154×255mm
Weight	6.7kg
Ambient air temperature	40° C (104° F)
Resettable	30A

Safety Installation Distance

Minimum distance to combustible materials	0.5 m
Minimum distance to illuminated surfaces	10m



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